

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/532,787  
Source: BT  
Date Processed by STIC: 5-10-05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 10/532,787

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics  
Wrapped Amino The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .J; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)  
(1) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)  
(4) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped.  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences.
- 8 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
<210> sequence id number  
<400> sequence id number  
000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <21> Response Per 1.823 of Sequence Rules, the only valid <21> responses are Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <21> response is Unknown, or is Artificial Sequence.
- 11 Use of <220> Sequence(s) missing the <220> feature and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <21> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid.



PCT

## RAW SEQUENCE LISTING

DATE: 05/10/2005

PATENT APPLICATION: US/10/532,787

TIME: 13:40:43

Input Set : A:\Sequence 27353-514 US1.txt

Output Set: N:\CRF4\05102005\J532787.raw

3 <110> APPLICANT: Sense Therapeutic Limited  
 5 <120> TITLE OF INVENTION: ENZYME ARRAY AND ASSAY  
 7 <130> FILE REFERENCE: 27353-514 US1  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/532,787  
 C--> 10 <141> CURRENT FILING DATE: 2005-04-25  
 12 <150> PRIOR APPLICATION NUMBER: GB 0311946.8  
 13 <151> PRIOR FILING DATE: 2003-05-23  
 15 <150> PRIOR APPLICATION NUMBER: PCT/EP02/14859  
 16 <151> PRIOR FILING DATE: 2002-12-20  
 18 <150> PRIOR APPLICATION NUMBER: GB 0224872.2  
 19 <151> PRIOR FILING DATE: 2002-10-25  
 21 <160> NUMBER OF SEQ ID NOS: 17  
 23 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply  
 Corrected Diskette Needed

(pg. 1-4) 2

## ERRORED SEQUENCES

25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 15  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Artificial  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Peptide  
 33 <400> SEQUENCE: 1  
 35 Ala Met Ala Arg Ala Ala Ser Ala Ala Ala Leu Ala Arg Arg Arg  
 E--> 36 1 5 10 15  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 12  
 41 <212> TYPE: PRT  
 42 <213> ORGANISM: Artificial  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Peptide  
 47 <400> SEQUENCE: 2  
 49 Glu Ala Ile Tyr Ala Ala Pro Phe Ala Lys Lys Lys  
 E--> 50 1 5 10 15  
 53 <210> SEQ ID NO: 3  
 54 <211> LENGTH: 7  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Artificial  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: Peptide  
 61 <400> SEQUENCE: 3  
 63 Leu Arg Arg Ala Ser Leu Gly

Invalid  
 response

Invalid  
 response

Invalid  
 response

p/s

see  
 item # 3  
 on error  
 summary  
 sheet.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/532,787

DATE: 05/10/2005

TIME: 13:40:43

Input Set : A:\Sequence 27353-514 US1.txt

Output Set: N:\CRF4\05102005\J532787.raw

```

E--> 64 1 5
      67 <210> SEQ ID NO: 4
      68 <211> LENGTH: 13
      69 <212> TYPE: PRT
      72 <213> ORGANISM: Artificial
      74 <220> FEATURE:
      75 <223> OTHER INFORMATION: Peptide same error
      77 <400> SEQUENCE: 4
      79 Lys Lys Ser Arg Gly Asp Tyr Met Thr Met Gln Ile Gly
E--> 80 1 8 10 5 10
      82 <210> SEQ ID NO: 5
      83 <211> LENGTH: 10
      84 <212> TYPE: PRT
      85 <213> ORGANISM: Artificial
      87 <220> FEATURE:
      88 <223> OTHER INFORMATION: Peptide same error
      90 <400> SEQUENCE: 5
      92 Lys Lys Leu Asn Arg Thr Leu Ser Val Ala
E--> 93 1 8 10 5 10
      96 <210> SEQ ID NO: 6
      97 <211> LENGTH: 23
      98 <212> TYPE: PRT
      99 <213> ORGANISM: Artificial
     101 <220> FEATURE:
     102 <223> OTHER INFORMATION: Peptide same error
     104 <400> SEQUENCE: 6
     106 Lys Lys Lys Val Ser Arg Ser Gly Leu Tyr Arg Ser Pro Ser Met Pro
E--> 107 1 8 10 15 10 15
     110 Glu Asn Leu Asn Arg Pro Arg
E--> 111 20 20
     114 <210> SEQ ID NO: 7
     115 <211> LENGTH: 14
     116 <212> TYPE: PRT
     117 <213> ORGANISM: Artificial
     119 <220> FEATURE:
     120 <223> OTHER INFORMATION: Peptide same error
     122 <400> SEQUENCE: 7
     124 Lys Arg Arg Arg Ala Leu Ser Val Ala Ser Leu Pro Gly Leu
E--> 125 1 8 10 5 10
     128 <210> SEQ ID NO: 8
     129 <211> LENGTH: 10
     130 <212> TYPE: PRT
     131 <213> ORGANISM: Artificial
     133 <220> FEATURE:
     134 <223> OTHER INFORMATION: Peptide same error
     136 <400> SEQUENCE: 8
     138 Arg Arg Arg Asp Asp Ser Asp Asp Asp
E--> 139 1 8 10 5 10
     142 <210> SEQ ID NO: 9

```

See  
item  
# 3  
on error  
summary  
sheet.

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/532,787

DATE: 05/10/2005  
 TIME: 13:40:43

SAME  
 errors

Input Set : A:\Sequence 27353-514 US1.txt  
 Output Set: N:\CRF4\05102005\J532787.raw

```

143 <211> LENGTH: 15
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Peptide
150 <400> SEQUENCE: 9
152 Lys Val Glu Lys Ile Gly Glu Gly Thr Tyr Gly Val Val Tyr Lys
E--> 153 1 5 10 15
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 26
157 <212> TYPE: PRT
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Peptide
163 <400> SEQUENCE: 10
165 Tyr Arg Arg Ala Val Pro Pro Ser Pro Ser Leu Ser Arg His Ser
E--> 166 1 5 10 15
169 Ser Pro His Gln Ser Glu Asp Glu Glu Glu
E--> 170 20 25
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 14
175 <212> TYPE: PRT
176 <213> ORGANISM: Artificial
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Peptide
181 <400> SEQUENCE: 11
183 Lys Lys Lys Ser Pro Gly Glu Tyr Val Asn Ile Glu Phe Gly
E--> 184 1 5 10
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 13
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Peptide
195 <400> SEQUENCE: 12
197 Gly Arg Pro Arg Thr Ser Ser Phe Ala Glu Gly Lys Lys
E--> 198 1 5 10
201 <210> SEQ ID NO: 13
202 <211> LENGTH: 9
203 <212> TYPE: PRT
204 <213> ORGANISM: Artificial
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Peptide
209 <400> SEQUENCE: 13
211 Lys Lys Arg Asn Arg Thr Leu Thr Val
E--> 212 1 5
215 <210> SEQ ID NO: 14
216 <211> LENGTH: 39
217 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/532,787

DATE: 05/10/2005

TIME: 13:40:43

Input Set : A:\Sequence 27353-514 US1.txt

Output Set: N:\CRF4\05102005\J532787.raw

Same  
errors

218 <213> ORGANISM: Artificial  
 220 <220> FEATURE:  
 221 <223> OTHER INFORMATION: Peptide  
 223 <400> SEQUENCE: 14  
 225 Lys Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Arg Arg  
 E--> 226 1 5 10 15  
 229 Glu Pro Arg Ile Leu Ser Glu Glu Glu Gln Glu Met Phe Arg Asp Phe  
 E--> 230 20 25 30  
 232 Asp Tyr Ile Ala Asp Trp Cys  
 E--> 233 35  
 236 <210> SEQ ID NO: 15  
 237 <211> LENGTH: 16  
 238 <212> TYPE: PRT  
 239 <213> ORGANISM: Artificial  
 241 <220> FEATURE:  
 242 <223> OTHER INFORMATION: Peptide  
 244 <400> SEQUENCE: 15  
 246 Glu Arg Met Arg Pro Arg Lys Arg Gln Gly Ser Val Arg Arg Arg Val  
 E--> 247 1 5 10 15  
 249 <210> SEQ ID NO: 16  
 250 <211> LENGTH: 11  
 251 <212> TYPE: PRT  
 252 <213> ORGANISM: Artificial  
 254 <220> FEATURE:  
 255 <223> OTHER INFORMATION: Peptide  
 257 <400> SEQUENCE: 16  
 259 Ala Lys Arg Arg Arg Leu Ser Ser Leu Arg Ala  
 E--> 260 1 5 10  
 263 <210> SEQ ID NO: 17  
 264 <211> LENGTH: 10  
 265 <212> TYPE: PRT  
 266 <213> ORGANISM: Artificial  
 268 <220> FEATURE:  
 269 <223> OTHER INFORMATION: Peptide  
 271 <400> SEQUENCE: 17  
 273 Lys Lys Lys Asn Arg Thr Leu Ser Val Ala  
 E--> 274 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/532,787

DATE: 05/10/2005  
TIME: 13:40:44

Input Set : A:\Sequence 27353-514 US1.txt  
Output Set: N:\CRF4\05102005\J532787.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/532,787

DATE: 05/10/2005

TIME: 13:40:44

Input Set : A:\Sequence 27353-514 US1.txt

Output Set: N:\CRF4\05102005\J532787.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:36 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1 /  
L:50 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2 /  
L:64 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3 /  
L:80 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4 /  
L:93 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5 /  
L:107 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6 /  
M:332 Repeated in SeqNo=6  
L:125 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7  
L:139 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8 /  
L:153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9 /  
L:166 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:10 /  
M:332 Repeated in SeqNo=10  
L:184 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:11 /  
L:198 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12 /  
L:212 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:13 /  
L:226 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14 /  
M:332 Repeated in SeqNo=14  
L:247 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15 /  
L:260 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16 /  
L:274 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17 /